

Experiment Number: 20407 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013

Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

F2_RE

NTP Study Number: C20407

Lock Date: 02/24/2009

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.1.1_001

PWG Approval Date: NONE

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST															
			0 0 9 0	0 0 9 0													
ANIMAL ID															* TOTALS		
			0 0 0 0 0 1	0 0 0 0 0 2	0 0 0 0 0 3	0 0 0 0 0 4	0 0 0 0 0 5	0 0 0 0 0 6	0 0 0 0 0 7	0 0 0 0 0 8	0 0 0 0 0 9	0 0 0 0 0 0	0 0 0 0 0 1				

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	10

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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			0 0 9 0											
ANIMAL ID														
			0 0 0 0											
			0 0 0 0											
			0 0 0 0											
			1 2 3 4	2 3 4 5	3 4 5 6	4 5 6 7	5 6 7 8	6 7 8 9	7 8 9 0	8 9 0 0	9 0 0 1	0 0 0 0		

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST													* TOTALS
			0 0 9 0												
		ANIMAL ID	1	2	3	4	5	6	7	8	9	0			
Bone Marrow			+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Bronchial			+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mandibular			+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mediastinal			+	+	+	+	+	+	+	+	+	+			10
Lymph Node, Mesenteric			+	+	+	+	+	+	+	+	+	+			10
Spleen			+	+	+	+	+	+	+	+	+	+			10
Thymus			+	+	+	+	+	+	+	+	+	+			10
INTEGUMENTARY SYSTEM															
Mammary Gland			M	M	M	M	M	M	M	M	M	M			0
Skin			+	+	+	M	+	+	+	+	+	+			9
MUSCULOSKELETAL SYSTEM															
Bone			+	+	+	+	+	+	+	+	+	+			10
NERVOUS SYSTEM															
Brain			+	+	+	+	+	+	+	+	+	+			10
RESPIRATORY SYSTEM															
Larynx			+	+	+	+	+	+	+	+	+	+			10

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WISTAR HAN RATS MALE	0 mg/m ³	DAY ON TEST													* TOTALS
			0 0 9 0												
ANIMAL ID	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
	Lung		+ + + + + + + + + +												10
Nose		+ + + + + + + + + +													10
Trachea		+ + + + + + + + + +													10
SPECIAL SENSES SYSTEM															
Eye		+ + + + + + + + + +													10
Harderian Gland		+ + + + + + + + + +													10
URINARY SYSTEM															
Kidney		+ + + + + + + + + +													10
Urinary Bladder		+ + + + + + + + + +													10
SYSTEMIC LESIONS															
Multiple Organ		+ + + + + + + + + +													10

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+ .. Tissue examined microscopically

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I .. Insufficient tissue

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Lab: BNW

WISTAR HAN RATS MALE	0.5 mg/m3	ANIMAL ID	DAY ON TEST												* TOTALS
			0 0 9 0												
			0 0 2 0 1	0 0 2 0 2	0 0 2 0 5	0 0 2 0 6	0 0 2 0 7	0 0 2 0 8	0 0 2 0 9	0 0 2 0 0	0 0 2 0 1	0 0 2 0 1	0 0 2 0 0	0 0 2 0 0	

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Lymph Node	+													1
Lymph Node, Bronchial	+	+	+	I	+	+	+	+	+	+	+	+	+	9
Lymph Node, Mediastinal	+	+	+	+	+	+	+	+	M	+	M			8

INTEGUMENTARY SYSTEM

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Lab: BNW

WISTAR HAN RATS MALE 0.5 mg/m3	DAY ON TEST ANIMAL ID										
		0 0 9 0	0 0 9 0								
		0 0 2 0 1	0 0 2 0 2	0 0 2 0 5	0 0 2 0 6	0 0 2 0 7	0 0 2 0 8	0 0 2 0 9	0 0 2 0 0	0 0 2 1 0	

* TOTALS

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung

+ + + + + + + + + + 10

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ + + + + + + + + + 10

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + + 10

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Lab: BNW

| WISTAR HAN RATS MALE | 2.0 mg/m3 | DAY ON TEST | | | | | | | | | | | | |
|----------------------|-----------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|--|
| | | | 0
0
9
0 | | |
| ANIMAL ID | | | | | | | | | | | | | | |
| | | | 0
0
4
0 | 0
0
4
1 | | |
| | | | 1
2 | 2
3 | 3
4 | 4
5 | 5
6 | 6
7 | 7
8 | 8
9 | 9
0 | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | 10 |

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Lab: BNW

| WISTAR HAN RATS MALE | 2.0 mg/m3 | DAY ON TEST | | | | | | | | | | |
|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | | | 0
0
9
0 | 0
0
9
0 |
| ANIMAL ID | | | | | | | | | | | | * TOTALS |
| | 0
0
4
0
1 | 0
0
4
0
2 | 0
0
4
0
3 | 0
0
4
0
4 | 0
0
4
0
5 | 0
0
4
0
6 | 0
0
4
0
7 | 0
0
4
0
8 | 0
0
4
0
9 | 0
0
4
0
0 | 0
0
4
0
1 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | 9 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

| | |
|------|--|
| NONE | |
|------|--|

GENITAL SYSTEM

| | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | 10 |

HEMATOPOIETIC SYSTEM

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Lab: BNW

| WISTAR HAN RATS MALE | 2.0 mg/m ³ | DAY ON TEST | | | | | | | | | | | | | * TOTALS |
|-------------------------------|-----------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | | 0
0
9
0 | |
| | | ANIMAL ID | 0
0
4
0 | |
| Bone Marrow | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Bronchial | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mediastinal | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Skin | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | |
| Larynx | | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

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2.0 mg/m ³ | DAY ON TEST
ANIMAL ID | | | | | | | | | | | * TOTALS |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0
0
9
0 | |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| URINARY SYSTEM | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | 10 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | 10 |
| SYSTEMIC LESIONS | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |

*** END OF MALE DATA ***

* .. Total animals with tissue examined microscopically; Total animals with tumor

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Lab: BNW

| WISTAR HAN RATS FEMALE | 0 mg/m ³ | DAY ON TEST | | | | | | | | | | | | | | | |
|------------------------|---------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|--|--|
| | | | 0
0
9
0 | | | |
| ANIMAL ID | | | | | | | | | | | | | | | * TOTALS | | |
| | | | 0
0
1
0 | 10 | | |
| | | | 1
0
2 | 2
3 | 3
4 | 4
5 | 5
6 | 6
7 | 7
8 | 8
9 | 9
0 | | | | | | |
| | | | | | | | | | | | | | | | | | |
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ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20407 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013

Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
0 mg/m3 | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-----------------------------------|--------------------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WISTAR HAN RATS FEMALE
0 mg/m3 | DAY ON TEST
ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WISTAR HAN RATS FEMALE
0 mg/m3 | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WISTAR HAN RATS FEMALE
0 mg/m3 | DAY ON TEST
ANIMAL ID | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| WISTAR HAN RATS FEMALE
0 mg/m3 | DAY ON TEST
ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ENDOCRINE SYSTEM

| | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | M | + | + | M | + | + | M | M | + | + | 6 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|
| NONE | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Ovary | + | + | + | + | + | + | + | + | + | + | 10 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Bronchial | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20407 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

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Nanoscale material (Fullerene-C60 50 nanometers)
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First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE | 0 mg/m ³ | DAY ON TEST | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------|---------------------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|----|--|
| | | | 0
0
9
0 | | | |
| | | | ANIMAL ID | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Lymph Node, Mediastinal | | | + | + | + | + | + | + | + | + | + | I | M | | | 8 | |
| Lymph Node, Mesenteric | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Spleen | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Thymus | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Skin | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | |
| Bone | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | |
| Brain | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | |
| Larynx | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Lung | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |
| Nose | | | + | + | + | + | + | + | + | + | + | + | + | + | | 10 | |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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Species/Strain: RATS/Wistar Han

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Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE | 0 mg/m ³ | DAY ON TEST | | | | | | | | | | | * TOTALS |
|------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
| | | | 0
0
9
0 | |
| ANIMAL ID | | | | | | | | | | | | | |
| | 0
0
1
0
1 | 1
1
1
0
2 | 1
1
1
0
3 | 1
1
4
0
4 | 1
1
5
0
5 | 1
1
6
0
6 | 1
1
7
0
7 | 1
1
8
0
8 | 1
1
9
0
9 | 1
1
0
0
0 | 1
1
1
0
1 | 1
1
2
0
2 | |
| Trachea | | | + + + + + + + + + + | | | | | | | | | | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | |
| Eye | | | + + + + + + + + + + | | | | | | | | | | 10 |
| Harderian Gland | | | + + + + + + + + + + | | | | | | | | | | 10 |
| URINARY SYSTEM | | | | | | | | | | | | | |
| Kidney | | | + + + + + + + + + + | | | | | | | | | | 10 |
| Urinary Bladder | | | + + + + + + + + + + | | | | | | | | | | 10 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | |
| Multiple Organ | | | + + + + + + + + + + | | | | | | | | | | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Experiment Number: 20407 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Nanoscale material (Fullerene-C60 50 nanometers)

CAS Number: 99685-96-8

Date Report Requested: 02/05/2013

Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE | 0.5 mg/m3 | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | * TOTALS |
|------------------------|-----------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 0 | | |

ALIMENTARY SYSTEM

NONE

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Lymph Node, Bronchial | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mediastinal | M | + | + | + | + | + | + | + | + | + | + | I | | 8 |

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20407 - 01

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE NASAL

Species/Strain: RATS/Wistar Han

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Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013

Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|
| WISTAR HAN RATS FEMALE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0.5 mg/m3 | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

* **TOTALS**

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung

+ + + + + + + + + +

10

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney

+ + + + + + + + + +

10

SYSTEMIC LESIONS

Multiple Organ

+ + + + + + + + + +

10

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
2.0 mg/m3 | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------------|--------------------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Experiment Number: 20407 - 01

Test Type: 90-DAY

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Species/Strain: RATS/Wistar Han

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Nanoscale material (Fullerene-C60 50 nanometers)
CAS Number: 99685-96-8

Date Report Requested: 02/05/2013

Time Report Requested: 07:56:27

First Dose M/F: 11/05/07 / 11/05/07

Lab: BNW

| WISTAR HAN RATS FEMALE
2.0 mg/m3 | DAY ON TEST
ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------------|--------------------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ENDOCRINE SYSTEM

| | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | M | M | M | + | M | + | 6 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|
| NONE | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Ovary | + | + | + | + | + | + | + | + | + | + | 10 |
| Uterus | + | + | + | + | + | + | + | + | + | + | 10 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Bronchial | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Lab: BNW

| WISTAR HAN RATS FEMALE
2.0 mg/m3 | DAY ON TEST
ANIMAL ID | | | | | | | | | | | * TOTALS |
|-------------------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0
0
9
0 | |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mediastinal | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | 10 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | | + | + | + | + | + | + | + | + | + | + | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | |
| Larynx | | + | + | + | + | + | + | + | + | + | + | 10 |
| Lung | | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose | | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

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| WISTAR HAN RATS FEMALE
2.0 mg/m3 | DAY ON TEST
ANIMAL ID | | | | | | | | | | | * TOTALS |
|-------------------------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0
0
9
0 | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | 10 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| URINARY SYSTEM | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | 10 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | 10 |
| SYSTEMIC LESIONS | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | 10 |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically